Total Remote v1.1x user guide

Total Remote allows your favorite Pocket PC to function as one master control for all your remote controlled devices. Total Remote comes with device profiles for thousands of devices such as TV, VCR, DVD and more. You can easily make your own device profiles by installing new ones or creating your own. You can sample the commands from your hardware remotes and create "virtual" remotes that look and function the way you want. The program provides you with a set of skins that enables you to change the remote control appearance any time you want.

The Total Remote Transmitter Module allows you to control infrared devices nearly 100 feet away using a typical iPaq. Because it uses your PDA's audio hardware, its range is up to 3 times greater than that of your current remotes. Since some Pocket PCs do not have audio hardware of sufficient quality to use the Total Remote Transmitter Module, Total Remote also supports built in Infrared ports (IrDA). While range is severely limited compared to the transmitter module, it is an effective back-up in the event that you misplace or damage the transmitter module.

Please save the UPC code that is printed on the Total Remote packaging as "proof of purchase". If you misplace your transmitter module and need to purchase another one you will need to send us the UPC code along with your order. Orders for the transmitter module that are not accompanied by the UPC proof of purchase cannot be processed.

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Total Remote – How To

Using pre-installed device configurations

There are hundreds of thousands of device configurations included with Total Remote, covering the majority of equipment manufacturers. If your original remote is listed in the master device list you can select it by name, assign it a skin, and you are ready to go. Not all of the possible infrared commands are implemented on all of the pre-installed devices, so if you find that you are missing a function you can add it by sampling your original remote control rather than create a whole new profile from scratch.

Many manufacturers use the same set of infrared commands for many of their products, so even if you don't have your particular model listed you may find that similar ones work just as well. For instance, during the testing of Total Remote we found that almost all of the Sony VCR profiles work either partially or completely on a Sony VCR we used that was not listed by its specific model number in our master device list.

Creating a new remote control

Total Remote comes with thousands of preset devices built in, but there may be situations where you have a device that is not included in the list. Total Remote allows you to select a configuration based on the type of device the remote control is created for. By specifying the device type you can select a skin that closely matches the functions of your original remote. You can set up a custom virtual remote and sample all the commands from your original remote to create your own personal remote control, either using the standard skins or your own custom skin.

In this example we will set up a custom Apex DVD player remote control.

1. Select *Device->New*. You will get to the adding device dialog.

Give a name to the new remote control. (Apex AD-500W).

3, Specify the device type. Choose one from the list of devices. (DVD).

4, Select the skin for the remote control appearance. You may select a skin file from the list of skins available for the chosen device type. (Standard DVD). Click on *Finish*, and your new device profile is ready to program.

Creating a remote control copy

Sometimes there is no need to create a completely new remote control. Instead, you may wish to create a remote control based on the current one. The current device settings, such as skin file, device type, and all command buttons will be inherited by the new device (although you may change any of them as you like). If a Total Remote preset has most of the controls of your device, but it's missing some of the features, you could copy a preset that "mostly" works and rename it to match your device. You could then sample the missing commands from your original remote to your Pocket PC. You could also make different configurations of the same remote with names like Sony DVD #1, Sony DVD #2, Sony DVD #3, and set up different functions like macro commands, while keeping certain commands like power or volume available at all times. To create a copy of the current device select *Device->Create Copy*.

Here's an example: You have a Sony N51 VCR. You discover that the preconfigured "Sony VCR #3" works for your particular model, but it only has the basic functionality (transport controls, channel up/down, power, and little else). You can copy the Sony #3 profile and add additional controls to it by using learning mode to capture the data from your original remote control. Add a check in the checkbox for "Sony VCR #3" to add it to your active devices. From the *Device* menu (or by clicking on the "next device" button onscreen until you get there) select the "Sony VCR #3" as the current device, then select *Create Copy* from the *Device* menu. This will create a new device, "Sony VCR #3 (Copy)". Make this the active device, then go to the *Edit* menu and select *Rename*…and give whatever name you'd like (such as "Sony N51"). Now you can begin using learning mode to add any additional commands not present in the preconfigured device profile, such as onscreen guide controls, tape tracking adjustments, input and output selectors and so on.

Current remote control

There can be many remote controls created on your PDA, but there can be only one currently "activated" (displayed on-screen). To select another device or switch between several remote controls, go to the *Device* menu and select a device you have added to the list. It is also possible for skins to display the name of the current remote control in a small window, with forward/backward arrows to select the next/previous device in the *Device* menu. This makes Total Remote even more convenient and intuitive for users.

Renaming a remote control

You may rename any device profile with a custom name and change it at any time. Make the device you wish to rename to be the current active device, and rename it using *Edit>Rename*…

Assigning actions to hardware buttons

Some remote control actions can be assigned to hardware buttons as well as to the virtual onscreen ones. To assign the actions go to *Edit->Assign Hardware Buttons...* menu. You will be taken to the hardware button dialog. In it, choose a hardware button and assign an action from the drop down menu. You may return to default actions predefined to each hardware button by tapping the *Set Default Values* button.

Assigning actions to hardware buttons is especially useful because you may use them when the display of your PDA is turned off. Most used actions (volume+, volume-, channel+, channel-) are default values for the hardware buttons, which are sufficient in most cases.

Turning the display off

You may turn off the display of your PDA while using it as a remote control. This saves battery resources, while still allowing you to use the hardware buttons for control.
To turn the display off select *Tools->Turn Display Off.* To return to the normal state you should quickly press the *Power* button twice. Be careful, as pressing it three times will turn it off!

Changing a remote control's appearance

You can easily change the appearance of your virtual remote by using different "skins." A skin is a set of images representing the functions of your virtual remote control. The skins built into Total Remote cover many commonly used devices and many commonly used controls on those devices. You can also make your own skins. For more information refer to the **Appearance & Skins** section**.**

Selecting device profiles

You can create and store literally thousands of remote controls, but you may wish to show only a few of them on the *Device* list of the main menu. To do so, select *Device->Select.* You will get to the dialog that enables selecting or deselecting available remote controls. Click on the plus/minus symbol next to a device category to expand/contract the list. To select or deselect an item, check or uncheck the corresponding check boxes. For convenience, the devices are grouped by type. Note you cannot deselect the device you are currently using; you must switch to another device and then deselect the old device from the menu.
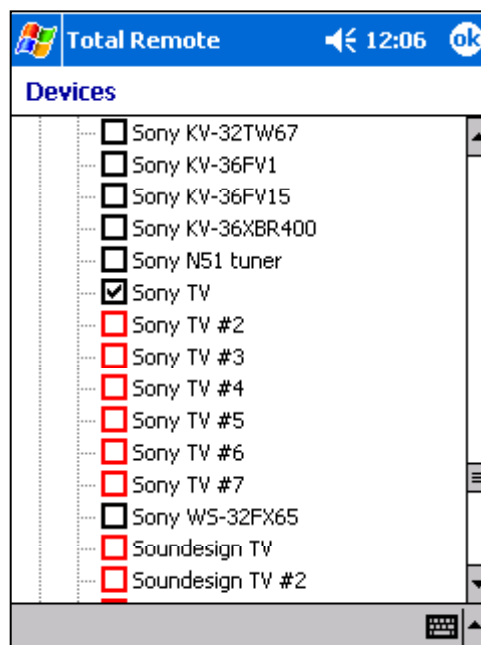
Deleting devices from the master list

You can delete any of the user-created devices listed in the Active Devices tree. Simply tap-and-hold on the device you wish to delete, and a pop-up menu will display the option to remove that device from the list. Note that this only works for the user-added devices shown in **black** in the device list; the devices marked in **red** are built-in to the IR database and cannot be deleted.
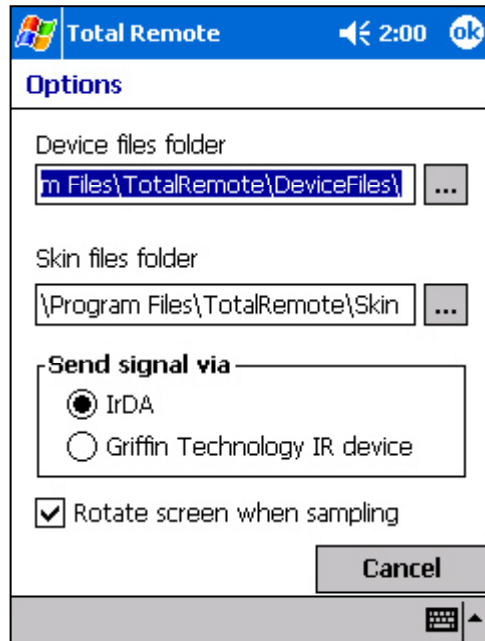
Setting the infrared output

Total Remote can send IR signals via either the IrDA port or the Total Remote Transmitter Module. This option is set from *Tools>Options…*, under the heading "Send signal via". If you have any problems using the Total Remote transmitter, make sure you have the output set to use it. If you are using the demo version you will not have the option of using the Total Remote transmitter (enabled in the full version only).

Device database changes for Total Remote v1.0 and v1.01 users

The old database of infrared device commands that was included with previous versions of Total Remote has been removed from Total Remote v1.1 in favor of the new database. Users upgrading from a previous version of Total Remote will still have the use of the original 371 devices in the old format, and the installer will not remove them. Unless you actually need one of the devices from the old database we would suggest deleting them as they increase the time required to load and run Total Remote. The simplest way to delete them is to navigate to the "DeviceFiles" directory with a file explorer (Pocket PC or desktop computer via Activesync) and delete them all.

CAUTION! If you have created any device profiles of your own they are also kept in this directory! Make sure you only delete what you don't need!

Total Remote – Sampling mode

Sampling mode for remote controls

Each device profile can 'learn' to send custom IR (InfraRed) signals. The sampling process is based on the principle of IR signal interception. You must send signals from your original remote control to your PDA while it is in the sampling mode. Total Remote will read these signals and link them with certain actions and/or selected buttons. When the sampling process is finished, your PDA is ready to send corresponding IR signals to your TV, VCR, DVD, etc.

Important. Some standard buttons of your remote controls may not produce infrared signals because they are "modifiers". These buttons could include "shift" buttons that select alternate functions of a given button like holding down the "shift" key on a keyboard. In this case you are not sampling the individual button presses but instead the command issued by the "shift + button" combination.

Another very important note is that the standard skins typically have some on-screen buttons that cannot be programmed because they are control keys for Total Remote. They can include:

- *Shift button.* This button switches to the next skin page if the current skin has more than one page.

- *Next/Previous device panel.* This panel includes a text bar with the name of the current remote control and two arrows that allow switching between the remote controls you have added to the *Device* menu.

- *Fullscreen button.* This button toggles the fullscreen mode where the skin can occupy the whole PDA screen or standard mode where you can access the menu bar and the Windows Start menu.

One-shot sampling

If you need to sample just one virtual button you should select *Edit->Start One-Shot Sampling.* The program will be placed into fullscreen mode and you will be asked to perform the following steps:

- Tap the desired button of your virtual remote control that you wish to assign a learned command

- Align the IR port of your PDA and the IR window of your original remote control (the application will wait for a valid infrared signal for only about 10 seconds)

- Press and hold the remote control button for about 0.5 seconds (a NORMAL press, not too short and not too long)

Total Remote will read the IR signal, analyze it and assign it to the virtual button you selected. In case of signal reception failure the program will display an error message and offer to retry.

- When the signal has been assigned correctly you'll be presented with two more buttons – *Second Signal* and *Finish*. Very few remotes require a second signal, but Total Remote provides the capability for those that do. To provide the second signal, tap the *Second Signal* button (follow the same steps for sampling the second signal). For more information, see **Second Signal Concept** at the end of this section.

- Tap *Finish* to quit the sampling mode

Continuous sampling

If you need to sample a lot of buttons, like copying every function from your original remote to a custom Total Remote device profile, you should select *Edit->Start Continuous Sampling.* Total Remote will enter fullscreen mode and you will be allowed to assign a function to every button of your virtual remote control.

- Tap the desired button of your virtual remote control that you wish to assign a learned command

- Align the IR port of your PDA and the IR window of your original remote control (the application will wait for a valid infrared signal for only about 10 seconds)

- Press and hold the remote control button for about 0.5 seconds (a NORMAL press, not too short and not too long)

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- Tap *Finish* to finish sampling the current button and to start sampling another one.

- To quit the Sampling mode go to the main menu and select *Edit->Stop sampling*

Rotating screen when sampling

It is often useful to rotate the remote control skin/screen 180 degrees in sampling mode. This can provide a better way of handling both the devices. For example, using an iPaq or other PDA that has the IrDA window at the top you would have to orient at least one device (the PDA or your OEM remote control) upside down in order to align the IR port and window. Rotating the screen solves this problem so that you will see all the buttons oriented the same way as your physical remote control making the process of continuous sampling a lot easier on the eyes and neck as well as speeding data entry. After you quit the sampling mode the screen will be rotated back to normal. You can still toggle fullscreen mode using the fullscreen button on the skin, so that when you have finished sampling you can access the menu bar and *Edit->Stop sampling*.

To rotate the skin/screen in sampling mode, go to the *Tools* menu and make sure to have the *Rotate screen when sampling* item selected.

Second signal concept

Some electronic standards require that each button of the remote control send two IR signals, which alternate each time you press a button. For these types of equipment you can make each virtual button learn a pair of signals in order to maintain the same functionality as the original remote. If you program a button successfully into your Pocket PC and it works once and only once, you need to sample a second signal.

If you are certain that your remote control does not support two signals for each button, you may skip the second signal sampling and tap *Finish* right after sampling the first one.

Total Remote - Appearance & Skins

Fullscreen mode

You may switch between fullscreen and menubar mode by tapping the *fullscreen* button in the bottom left corner of the screen (in menubar mode) or the *fullscreen* button on the skin. The fullscreen mode is useful when you use the program as a remote control, while the menubar mode is useful when you customize preferences or perform the sampling process.

Fullscreen mode icons: the icon to the left is the fullscreen button when in menubar mode, and the icon to the right is the fullscreen button used in all of the included standard skins.

Selecting skins for remote controls

Each remote control is supplied with a skin when it is created. You can change the remote control skin by selecting *Edit->Change Skin...* from the main menu. You may select a skin from the list of available skins. You should choose skins that are specially designed for certain devices, because they contain different functions. For instance, you don't need a record button for a TV, so using the VCR skin for a TV remote wouldn't make much sense.You may create and add your own skins. Put the skin files in the *\SkinFiles* folder. They will appear in the list of available skins.

Creating and adding skins

Total Remote provides you with a rich set of standard skins for most major device types, as well as some more specialized skins. However, you may create your own skins for your remote controls. Each skin is represented by a PNG image, stored in *\SkinFiles* folder (by default *\Program Files\Total Remote\SkinFiles\)*. Full documentation for creating your own skins is provided on our web site in the Total Remote area, and is a free download for all Total Remote users.

The Total Remote web site also features a "skin community" where you can download skins that other Total Remote users have made, or upload your own custom skin for others to enjoy.

Setting device and skin paths

Total Remote's installation process gives you the choice of installing to either the "Main Memory" or the "Storage Card", but it is possible to change the location of the user-created device files and skin files to a different directory. For example, you may want to have Total Remote available to you all the time so you instruct the ActiveSync installer to put Total Remote in main memory, but you may want to keep a lot of user-created device profiles or skin files on an external storage card. In this way you always have the universal IR database and the ability to learn new remotes even if you do not have the external storage card installed, and if you do have the external storage card installed you can select from any of your skins or devices. The only real reason to do this is because skin files can take up a comparatively large amount of storage space, and keeping a few dozen skins in main memory would probably fill up your Pocket PC very quickly!

Let's say you do a standard installation to main memory, and you intend to keep a LOT of skins (or very large skins) on your storage card.
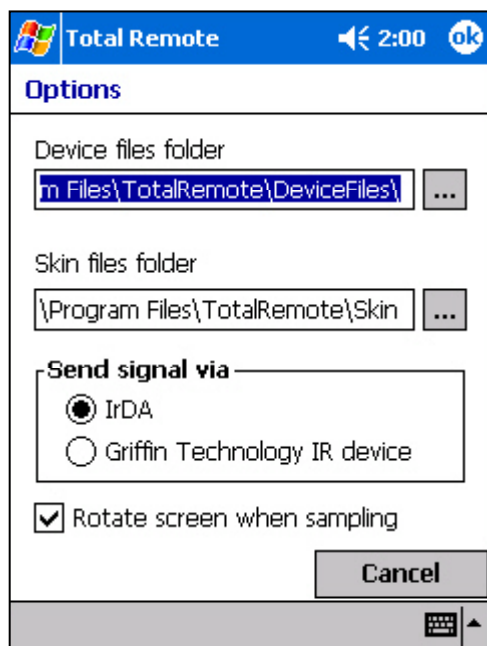
Copy the Total Remote *DeviceFiles* and *SkinFiles* directories to your storage card
 (i.e. Storage Card\Total Remote stuff\DeviceFiles or SkinFiles)

In Total Remote, go to *Tools>Options…*

Change the "Device files folder" to the new location by either browsing to it (click on the "…" icon to bring up a file navigator) or type in the full path name in the text box.

Do the same for the "Skin files folder" entry

You may need to do a soft-reset before Total Remote recognizes the change.

Advanced Functions

Macro functions

In Total Remote a "macro" is a sequence of commands that are sent using only one button press. For example, you have a TV, VCR, DVD player, CD changer and AV receiver in your home theater. If you want to watch a DVD you have to follow a pretty specific sequence:

Turn on DVD player
Turn on AV receiver
Select the DVD input on the AV receiver
Turn on TV
Select the input from your AV receiver

Additionally, you are required to wait for some equipment to "warm up" before you can use it, which means you may have to wait 4 seconds before your AV receiver will allow you to switch to the DVD input (as an example). Let's see how we could do this with macros:

Press the "Turn everything on and switch to DVD" button

Much easier! Of course, you have to have all of the commands already programmed in Total Remote, but once they are there you have a lot of flexibility in how you queue them up to create long command sequences.
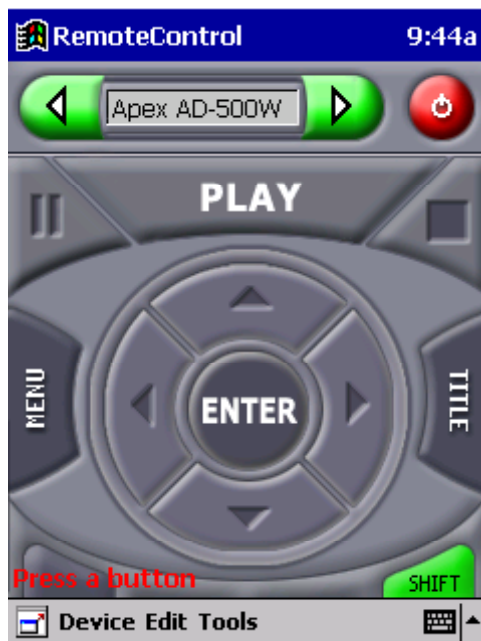
Start recording a macro

Once you have a device profile set up the way you want you can create a command macro and assign it to a button. Go to *Edit>Start recording macro* to begin a new macro. You will see "Press a button" flashing in the lower left corner; press the Total Remote button you wish to assign a macro to. You will now see "Rec" flashing in the corner, indicating that you are actually creating the macro command sequence; press the onscreen buttons you wish to add to the macro. Note that certain buttons do not get recorded in a macro command, such as the fullscreen mode button or the on-skin "shift" button, but they retain their normal function. For example, if you are making a macro and you need to use buttons that are on a different "page" you can press the "Shift" button to access the other pages just like normal, or if you need to access buttons that are hidden by the menubar you can select fullscreen mode to get at them. When you have added all the commands you wish to include in the macro, go to the menubar and select *Edit>Stop Recording Macro* to finish this macro.

Adding an adjustable delay in macro commands

As mentioned before, there are some cases where you have to wait a period of time between commands in order to allow the device you are controlling to perform one task before proceeding to the next. When you are creating a macro you can insert an adjustable delay period between commands to account for this "busy time". For example, if you want to turn on your TV, wait 3 seconds for it to come on, change to channel 56, wait 0.5 seconds for it to change, and mute the volume you could do something like this:
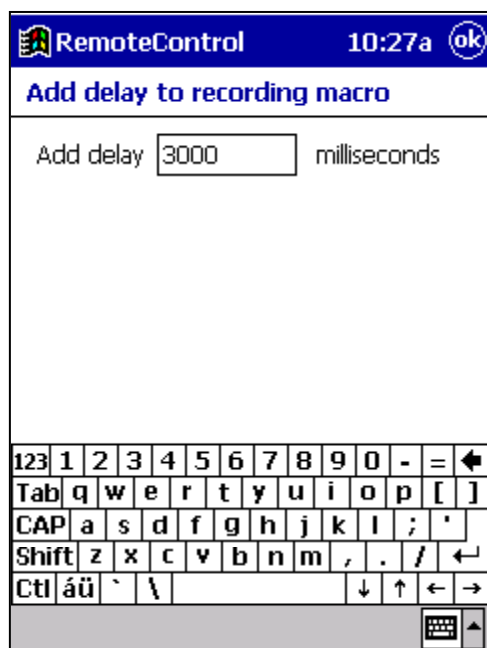
Begin recording a macro (*Edit>Start Recording Macro)*; "Press a button" flashes

Select the button you wish to use for the macro (we'll use the "-/--" key next to channel); "Rec" starts flashing

Press the onscreen power button

Go to *Edit>Add Delay To Macro* and enter "3000" (Note: 1000 milliseconds = 1 second) then click "OK" in the upper right corner

Press the "5" button, then press the "6" button

Go to *Edit>Add Delay To Macro* and enter "500" then click "OK" in the upper right corner

Press the Mute button

Go to *Edit>Stop Recording Macro,* and you're finished.

Cancel recording a macro

You may decide that you wish to abandon any work you have done in creating a macro and simply discard it mid-way through creation. Go to *Edit>Cancel Recording Macro*, your current macro will be thrown away, and you will be returned to normal operating mode.

Why is the Transmitter Module so cool?

The Total Remote infrared Transmitter Module is a marvel of clever engineering. When talking about infrared control there are a few things you need to know:

Infrared signals are usually modulated at about 35KHz-60KHz, which means the digital data is sent inside a high-frequency tone, similar to the way radio signals work. The apparent problem is that the audio output of most high-fidelity consumer gear is limited to 20KHz, which is far too low to create an infrared control signal. The Total Remote transmitter effectively doubles the "data rate" of an audio port, so it can generate a 38KHz signal out of a 19KHz signal.

Infrared LEDs, like the kind in your original remote or the Total Remote transmitter, require more power to turn on than an audio port normally delivers. Our transmitter's design allows it to effectively double the power output when combined with our software's particular method of sending signals.

The IrDA port built in to most handheld computers is entirely the wrong standard for data rate, wavelength of light, and communications protocol to be used with consumer infrared. The result is that while it is possible to "hack the port" so that you can transmit remote control data, it works very poorly compared to the correct standards used in OEM remotes. Most people find that transmission via IrDA provides only 10-20 feet of range with most devices, and as little as a few feet for some others! Because the Total Remote transmitter is designed just like the transmitter on your original remote, it works just as well (or better) than the original. Ironically, the IrDA port works pretty well for sampling remotes, just not for transmitting that signal.

Coolest of all is the fact that a good audio port can create a signal FAR more powerful than a standard OEM remote control. Using a Compaq iPaq 3600 series Pocket PC we have been able to control most devices over a distance of **ONE HUNDRED FEET** using the Total Remote transmitter. The average operational range of most "real" remotes is about 40 feet at best, with some being as low as 20 feet. You may say, "Hey, my living room isn't 100 feet long, so who cares?" When we did our distance tests we used the best possible test environment, which showed the best possible performance of the remotes. Real life isn't quite so optimized. Your VCR's infrared sensor window may be dusty, you may have a habit of waving the remote around, your dog (or child) may have chewed on it, etc. Whatever the reason, in real life you can easily reduce a remote's performance. So using our more powerful transmitter will give you better signal reliability than a weaker remote.

It also looks *really cool.*

Total Remote v1.1 infrared database
listed by manufacturer and number of profiles

Cable			
Mfg	*Number of device profiles*	*Mfg*	*Number of device profiles*
ABC	8		
Allegro	5	Antronix	2
Archer	4	Cabletenna	1
Cableview	1	Century	1
Citizen	2	Comcast	2
Comtronics	2	Comtronics Eagle	2
Eagle Comtronics	1	Eastern	1
Electricord	1	Everquest	2
Garrard	1	GC Electronics	1
GE	2	Gemini	4
General Instrument	16	Goldstar	2
Hamilton	3	Hamlin	7
Hitachi	1	Hitex	1
Jasco	2	Jerrold	16
Kingston	1	Macom	1
Memorex	1	Motorola Digital	2
Movie Time	4	Novavision	2
NSC	4	Oak	3
Omega	1	Panasonic	4
Paragon	1	Philips	9
Pioneer	4	Pulsar	1
RCA	1	Regal	7
Regency	1	Rembrandt	3
Runco	1	Samsung	2
Scientific Atlanta	4	Signal	2
Signature	1	SL Marx	1
Sprucer	2	Standard Compnt	2
Starcom	4	Stargate	2
Starquest	1	Sylvania	1
Tandy	1	Teknika	1
Telecaption	1	Teleview	1
Texscan	2	Time Warner	1
Tocom	4	Toshiba	1
Tusa	1	Unika	3
United Artists	1	United Cable	1
Universal	7	Video Way	1
Videostar	3		

DVD			
Mfg	*Number of device profiles*	*Mfg*	*Number of device profiles*
JVC	1	Mitsubishi	1
Panasonic	1	Pioneer	1
Proscan	1	RCA	1
Sony	1	Toshiba	1

SAT (Satellite)			
Mfg	*Number of device profiles*	*Mfg*	*Number of device profiles*
DishNet	1	General Instrument	1
Hitachi	1	Hughes	1
Mitsubishi	1	Primestar	2
RCA	3	Sony	2

TV			
Mfg	*Number of device profiles*	*Mfg*	*Number of device profiles*
Admiral	6	Adventura	1
Aiko	1	Aiwa	1
Akai	5	Alleron	2
Amark	1	Anam National	5
AOC	9	Archer	1
Audiovox	2	Belcor	3
Bell and Howell	4	Bradford	1
Brokwood	3	Brooksonic	4
Candle	4	Capehart	1
Carnivale	1	Carver	3
CCE	1	Celebrity	1
Centurion	1	Cetronic	1
Citizen	11	Clairtone	1
Classic	1	Colortyme	3
Concerto	4	Contec/Cony	2
Coronado	2	Craig	2
Crown	2	CTX	1
Curtis Mathes	8	CXC	1
Daewoo	10	Daytron	6
Dumont	2	Dynasty	1
Dynatech	1	Electroband	2
Electrohome	4	Emerson	15
Envision	1	Fisher	2
Fortress	1	Fujitsu	1
Funai	3	Futuretech	1
GE	11	GE Combo	1
Gibralter	3	Goldstar	7
Goldstar TV/VCR Combo	1	Griswold	2
Grunpy	2	Hallmark	5
Havard	4	Hitachi	13
IMA	1	Infinity	1
Inteq	1	J.C. Penney	14
Janeil	1	JBL	1
JCB	1	Jensen	3
JVC	4	Kawasho	4
Kaypani	1	KEC	2
Kenwood	3	Kloss	3
Kloss Novabeam	2	KMC	1
KTV	6	Linatech	2
Lodgenet	1	Loewe	1
Logik	3	Luxman	4

LXI	9	LXI Combo	1
Magnatron	1	Magnavox	10
Majestic	2	Marantz	6
Megatron	5	MEI	2
Memorex	9	MGA	6
Midland	4	Minutz	1
Mitsubishi	10	Montgomery Ward	14
Motorola	6	MTC	7
Multitech	2	NAD	5
NEC	6	Nikei	1
Nikko	4	NTC	1
Onking	1	Onwa	1
Optimus	6	Optimus TV/VCR	6
Optonica	2	Orion	4
Panasonic	15	Philco	8
Philiph CDR	3	Philips	10
Philips TV/VCR Combo	1	Pilot	3
Pioneer	5	Portland	5
Prism	2	Proscan	9
Proton	7	Pulsar	5
Quasar	13	Radio Shack	10
Radio Shack TV/VCR Combo	1	RCA	14
Realistic	7	Realistic TV/VCR Combo	1
Rhapsody	1	Runco	2
Sampo	5	Samsung	8
Samsung Combo	2	Sanyo	5
Scimitsu	1	Scotch	3
Scott	7	Sears	14
Sharp	7	Shogun	3
Signature 2000	4	Simpson	3
Sonic	1	Sony	7
Soundesign	6	Spectracon	6
SSS	5	Starlite	3
Supre-Macy	2	Supreme	1
Sylvania	12	Symphonic	3
Tandy	5	Tatung	4
Technics	2	Technol ACE	1
Techwood	6	Teknika	14
Tera	4	Thomson	2
TMK	5	Toshiba	5
Tosonic	1	Totevision	1
Universal	3	Vector Research	2
Victor	1	Video Concepts	1
Video Tech	3	Vidikron	1
Vidtech	3	Viking	1
Wards	16	Yamaha	3
York	1	Yupiteru	1
Zenith	10	Zenith Combo	1
Zonda	2		

VCR			
Mfg	*Number of device profiles*	*Mfg*	*Number of device profiles*
Admiral	6	Adventura	1
Aiko	1	Aiwa	8
Akai	7	Allegro	1
American High	3	Asha	1
Audio Dynamics	3	Audiovox	2
Beaumark	1	Bell and Howell	4
Brooksonic	6	Calix	1
Candle	3	Canon	4
Capehart	1	Carver	1
CCE	1	Citizen	7
Colortyme	1	Colt	1
Consonic	1	Craig	5
Curtis Mathes	8	Cybernex	2
Daewoo	4	DBX	3
Dynatech	2	Electrohome	3
Electrophonic	1	Emerex	1
Emerson	20	Fisher	7
Fuji	5	Funai	5
Garrard	1	GE	13
Go Video	3	Goldstar	4
Gradiente	1	Harley Davidson	1
Harman Kardon	3	Harwood	2
Havard	1	Headquarter	1
Hi-Q	1	Hitachi	11
Instant Replay	3	Inteq	1
J.C. Penney	11	JCL	2
Jensen	3	JVC	8
KEC	2	Kenwood	6
KLH	1	Kodak	3
Lloyd	4	Logik	1
LXI	1	LXI Combo	1
M. Ward	16	Magnasonic	5
Magnavox	6	Magnin	1
Marantz	7	Marta	1
Masushita	3	MEI	2
Memorex	13	MGA	3
MGN Technology	1	Minolta	3
Mitsubishi	8	Montgomery Ward	6
Motorola	3	MTC	3
Multitech	4	NAD	2
NEC	10	Nikko	1
Nikon	1	Noblex	1
Olympus	2	Optimus	3
Optimus TV/VCR Combo	7	Optonica	1
Orion	13	Panasonic	14
Pentax	4	Pentex Research	1
Philco	3	Philips	6
Philips TV/VCR Combo	1	Pilot	1
Pioneer	4	Proscan	2
Protec	1	Pulsar	1

Quarter	1	Quartz	1
Quasar	7	Radio Shack TV/VCR Combo	1
Radioshack	9	Radix	1
Randex	1	RCA	18
Realistic	9	Realistic TV/VCR Combo	7
Ricoh	2	Runco	1
Salora	1	Samsung	6
Samsung TV/VCR Combo	2	Sanky	2
Sansui	8	Sanyo	5
Scott	6	Sears	14
Sharp	3	Shintom	4
Shogun	2	Signature 2000	1
Singer	4	Sony	8
STS	3	Sylvania	6
Symphonic	3	Tandy	2
Tashiko	2	Tatung	3
Teac	3	Technics	2
Teknika	6	TMK	3
Toshiba	8	Totevision	2
Unitech	1	Vector Research	4
Victor	3	Video Concepts	5
Videosonic	3	White Westinghouse	1
XR-1000	5	Yamaha	5
Zenith	5	Zenith TV/VCR Combo	4

Total Remote's built-in device skins

These are the three interface screens for the standard "Audio System" skin

This is the interface screen for the standard "CD" skin

These are the two interface screens for the standard "DVD" skin

This is the interface screen for the standard "Tuner" skin

These are the two interface screens for the standard "TV" skin

These are the two interface screens for the standard "VCR" skin